Author Index

Page numbers in italics refer to authors of books reviewed

Abbott, R. J., 391-393
Alvarez, G., 55-66

Barrett, S. C. H., 105-112, 355-365
Bidau, C. J., 145-159
Black, W. C., 281-287
Böhme, W., 131-138
Brakefield, P. M., 87-92
Brooker, P. C., 25-27
Bryant, E. H., 315-321
Burdon, J. J., 347-353

Cahaner, A., 205-213
Cano, M. I., 17-23
Carrillo, J. M., 125-130
Carter, R. E., 73-80
Childs, D., 81-85
Clark, A. G., *428-429*
Cordero, A., 341-346
Courtney, S. P., 371-375

Delay, B., 169-175
Dellaert, L. M. W., *429-430*
Diez, M., 197-204
Drahushchak, L. R., 413-417

Edgar, L. A., 377-385
Eggleston, P., 215-222, 223-231
Eisen, E. J., (Ed.), *428*
Elkina, Y., 205-213
Evans, G. M., 305-313

Ferguson, M. M., 413-417
Forbes, D. F., 391-393
Ford, V. S., 29-44

Ganders, F. R., 131-138, 387-390
Gepts, P., (Ed.) *430-431*
Giles, B. E., 239-250
Goodman, M. M., (Ed.), *428*
Gottlieb, L. D., 29-44
Grant, C. J., 121-124
Guillaume, C., 131-138

Hard, J. J., 371-375
Hartl, D. L., *428-429*
Hayman, D. L., 251-254
Heath, D. J., 81-85, 419-425
Hedrick, P. W., 67-72
Hemmat, M., 215-222, 223-231
Heulin, B., 131-138
Hill, M., 395-401
Holloway, G. J., 323-330
Hutchinson, J. M. C., 113-120

Innes, D. J., 331-340
Irwin, J. A., 391-393

James, S. H., 289-295
Jamilena, M., 185-195
Jarne, P., 169-175
Jarosz, A. M., 347-353
Jenkins, G., 45-53
Jiménez, M. M., 197-204
John, B., *427*
Jones, G. H., 377-385

Kambhampati, S., 281-287
Karakousis, Y., 297-304
Kedar, N., 205-213
Klaczko, L. B., 263-269
Kumamaru, T., 9-15
Kupriyanova, L., 131-138
Kyriacou, C. P., 395-401

Ladizinsky, G., 367-370
Leggett, J. M., 403-411
Levy, A., 367-370
Liebert, T. G., 87-92
Louwes, K. M., *429-430*
Lozano, R., 185-195

McCommas, S. A., 315-321
McLain, D. K., 161-167
McNally, S. F., 177-183
Marsh, N. B., 161-167
Martínez, P., 55-66
Meagher, T. R., 233-238
Meng, A., 73-80
Miklos, G., *427*
Milo, J., 367-370
Morgan, M. T., 271-279
Morikawa, T., 403-411
Muona, O., 67-72

Namkoong, G., (Ed.), *428*

Ogawa, M., 9-15
Oldroyd, M., 395-401
Omura, T., 9-15
Orellana, J., 125-130
Orr, H. A., 255-262
Otto, P. A., 263-269

Palevitch, D., 367-370
Parker, J. S., 377-385
Parkin, D. T., 73-80
Pasteur, G., 131-138
Peixoto, A. A., 263-269
Playford, J. 289-295
Povey, S. R., 323-330
Puertas, M. J., 197-204

Rahman, M. M., 305-313
Rai, K. S., 281-287
Ratford, J. R., 81-85, 419-425
Riddoch, B. J., 81-85
Robertson, J. L., 93-103
Rodger, J. C., 251-254
Romera, F., 197-204
Ross, K. G., 93-103
Ruiz Rejón, C., 185-195
Ruiz Rejón, M., 185-195

Salvidio, S., 131-138
Sampson, J. F., 289-295
Santos, J. L., 17-23
Satah, H., 9-15
Scriven, P. N., 25-27
Sharp, M., 395-401
Sharp, P. M., 177-183
Shaw, J., 233-238
Shore, J. S., 105-112
Sibley, R. M., 323-330
Sprenger, D., 281-287
Sun, M., 131-138

Taggart, J. B., 177-183
Taljapurkar, S., 1-7
Thomas, R. H., 355-365
Toussaint, H. A. J. M., *429-430*
Triantaphyllidis, C., 297-304

Vazquez, J. F., 125-130
Vega, J. M., 197-204

Webster, M. A., 121-124
Weir, B. S., (Ed.), *428*
White, J., 45-53
Whitehouse, C., 377-385
Wood, J., 395-401

Zapata, C., 55-66

Species Index

Page numbers in italics refer to the subject of the papers

Aedes albopictus, 281–287
Agaricus, 374
  campestris, 372, 373
Allium, 17
  cepa, 185–195
  kachrooi, 22
  schoenoprasum, 172
  subvillosum, 185–195
Amphicarpaea bracteata, 347, 352
Arianta arbustorum, 115
Armadillidium, 81
  aquaticus, 85
  nasatum, 425
  vulgare, 419, 423, 424
Artemia salina, 342
Avena spp, 352
  agadiriana, 403
  barbata, 403, 409
  canariensis, 403–411
  fatua, 409

Bidens cynapiifolia, 142
  discoidea, 142
  frondosa, 142
  pilosa, 139–143
  sandvicensis, 140
  tripartita, 142
Biomphalaria glabrata, 174
Biston betularia, 429
Bombyx mori, 18
Brassica spp, 392
Bufo boreas, 413
Bulinus cernicus, 174

Cactoblastis cactorum, 360
Callimorpha quadripunctaria, 87–92
Ceriagrion, 341
  tenellum, 342
Cestrum, 268
Chorthippus brunneus, 20, 22
  jucundus, 17–23
  parallelus, 17–23
  vagans, 17–23
Chortoicetes terminifera, 20, 22
Chrysochraon dispar, 17, 20
Circium undulatum, 247
Clarkia biloba, 410
  lingulata, 410
  xantiana, 105
Clausilia itala, 115
Climacium americanum, 223–238
    var. *kindbergii*, 235
  dendroides, 237
Cochlodina laminata, 113–120
Coenagrion puella, 345
Columba livia, 413
Crepis, 22
  capillaris, 377–385
Cucumis sativa, 372, 374
Cygnus columbianus, 73–80
  cygnus, 73–80
  olor, 73–80

Dendrocoelum lacteum, 17
Diataraxia oleracea, 329
Dichroplus pratensis, 145–159
Drosophila, 63, 65, 100, 124, 151, 157, 158, 177, 215, 221, 230, *263–269*, 328, 342, 355, 359, 362, 364, 372, 374, *395–401*, 427
  albomicans, 269
  albostrigata, 269
  americana, 256, 259
  busckii, 371–375
  buzzatii, 355–365
  cardinoides, 263
  flavipilosa, 263–269
  guaramunu, 263
  kohkoa, 269
  littoralis, 255
  lummei, 255–262
  mediopunctata, 263–269
  melanogaster, 18, 63, 67, 192, 193, *215–222, 223–231*, 255, 260, 261, 319, 363, 372, *395–401*
  mojavensis, 372, 374
  nasuta, 263, 269
  nebulosa, 263–269
  novamexicana, 256, 259
  polymorpha, 263
  pseudoobscura, 267
  simulans, 255, 261
  subobscura, 55–66
  suboccidentalis, 372, 374
  sulfurigaster, 269
  texana, 259, 260
  virilis, 255–262
  willistoni, 263–269, 410

Eichhornia paniculata, 271–280
Enallagma, 341
Enteromorpha sp., 420
Erysiphe fischeri, 347
  graminis sp. *tritici*, 247
Euchorthippus chopardi, 17–23
  pulvinatus, 17–23
Eyprepocnemis plorans, 20, 22

Flavobacterium spp., 414
Fritillaria, 17

Gammans duebeni, 419, 424
Gammarus oceanicus, 85
Gibasis linearis, 384
Gilia achilleifolia, 106
Glycine argyrea, 347–353
  canescens, 347, 348, 351, 352
  max, 247

Haplopappus aureus, 43
  venetus, 43
Helianthus annuus, 43
Heteracris littoralis, 20
Hordeum vulgare, 305–313
    ssp. *spontaneum*, 239–250
    ssp. *vulgare*, 241, 243
Hypochoeris, 22, 384

Ipomoea hederacea, 106
purpurea, 105
Ischnura damula, 341, 343, 345
demorsa, 341, 343, 345
elegans, 342, 345
graellsii, *341–346*
pumilo, 342
ramburi, 344, 345
Isotoma anaethifolia, 290
axillaris, 290
petraea, *289–295*

Lacerta vivipara, *131–138*
Lamium album, 87
Layia discoidea, *29–44*
glandulosa, *29–44*
ssp. *glandulosa*, *29–44*
lutea, *29–44*
Leptysma argentina, 154
Lestes barbarus, 342
dryas, 342
virens, 342
viridis, 342
Lilium, 17
Lolium multiflorum, 45, 311
perenne, *45–53*, 221, 311
temulentum, *45–53*
Lotus corniculatus, 387
Lupinus texensis, 248
Lymnaea peregra, *169–175*
stagnalis, 174

Melanoplus femur-rubrum, 21
Mimulus cupriphilus, 111
guttatus, 111
Monodelphis domestica, 251, 253
Musca domestica, *315–321*
Muscari comosum, *185–195*
Myrmeleotettix maculatus, 20, 203, 379, 384

Najas marina, 384
Nezara viridula, *161–167*
Nicotiana rustica, 105

Oedaleonotus enigma, 154
Omocestus panteli, *17–23*
Oncorhynchus mykiss, *413–417*
Opuntia, 355
Orchestia gammarella, 419

Panaxia dominula, 91
Papaver bracteatum, *367–370*
orientale, *367–370*
somniferum, 367, 368
Parapleurus alliaceus, 17, 21
Passer domesticus, 76
Pellia borealis, 237
epiphylla, 237
Pentaglottis sempervirens, 87
Phakopsora pachyrhizi, *347–353*
Phaseolus 430–431
acutifolius, 430
coccineus, 430
lunatus, 430, 431
vulgaris, 430

Phaulacridium, 158
Plagiochila asplenioides, 237
Platorchestia platensis, 85
Polytrichum juniperinum, *331–340*
Porcellio, 81
dilatatus, 85
Porcellionides virgatus, 90
Primula vulgaris, *121–124*
Pseudococcus affinis, 203
Puccinia coronata, 352
Puschkinia libanotica, 384
Pyrrhosoma, 341

Ramaria, 372, 374
Rumina decollata, 174

Salmo trutta, 297–304
ssp. *dentax*, 297
macedonicus, 297
macrostigma, 297
mediterranea, 302
pelagonicus, 297, 298
peristericus, 297
Sarracenia purpurea, 177–183
Schistocerca, 384
Scilla autumnalis, *185–195*
sibirica, 193
Secale cereale, *125–130*, *197–204*
montanum, 125
Senecio squalidus, 43, 88, 139, 143, 393
vulgaris, 43, 139, 142, 143, 347, *391–393*
Sitophilus oryzae, *323–330*
Sminthopsis crassicaudata, 17, 251, 253
Solanum goniocalyx, 429
tuberosum, 429
Solonopsis invicta, *93–103*
richteri, *93–103*
Sorghum vulgare, 247
Sphaeroma rugicauda, 81–85, 419–425
Sphagnum, 237
Stethophyma grossum, 17, 21
Symphytum officinale, 87
Synchytrium decipiens, 347, 352

Taraxacum officinale, 247
Tettigidea lateralis, 384
Tragopogon dubius, 247
Tribolium, 223, 328
Trichopoda pennipes, 166
Trichosurus vulpecula, *251–254*
Trifolium pratense, 311
repens, *387–390*
Triticum aestivum, 247
Triturus cristatus, 17, 22
helveticus, 17, 22
Tulbaghia, 17, 22
Turnera ulmifolia, 106
var. *angustifolia*, *105–112*

Urtica dioca, 88

Vicia faba, 185

Zea mays, 384
Zootoca vivipara, see *Lacerta vivipara*

Subject Index

allele frequency estimation in *Drosophila*, 263–270
allozyme variation in *Bidens pilosa*, 139–143
  in the pitcher plant, 177–183
altitudinal clines for cyanogenesis in white clover, 387–390

B-chromosome effects on meiosis in *Crepis capillaris*, 377–385
biometrical genetics of competitive parameters in *Drosophila melanogaster*, 223–231

calyx morph variants in *Primula vulgaris*, 121–124
centric fusions and chiasma frequency, 145–159
chiasma frequencies and distributions, 17–23
  frequency, effects of polymorphisms on, 145–159
chromatin, characterization of, in Liliaceous species, 185–193
chromosomal evolution implications for, 131–138
  inversion polymorphisms in *Drosophila*, 263–270
chromosome dissimilarity in a *Lolium* hybrid, 45–53
  imprinting effect in rye, 197–204
  polymorphism in mice, 25–27
clock mutations and development time in *Drosophila*, 395–401
clonal structure in *Climacium americanum*, 233–238
colour polymorphism in the Jersey Tiger Moth, 87–92
competitive interaction in triocultures of *Drosophila melanogaster*, 215–222
  parameters, biometrical genetics of, in *Drosophila melanogaster*, 223–231
complex hybridity in *Isotoma petraea*, 289–295
cyanogenesis, altitude clines for, in white clover, 387–390

developmental timing in *Drosophila* and clock mutations, 395–401
differentiation among founder populations of the pitcher plant, 177–183
digestion with endonucleases of chromatin, 185–195
disease resistance and enzyme heterozygosity in rainbow trout, 413–417
distorted ratios in offspring of *Sphaeroma* due to multiple mating, 81–85
distribution of radiate plants of *Senecio vulgaris* with self-incompatible florets, 391–393
DNA fingerprints in swans, 73–80

effect of viability genes in selfing organisms, 67–72
electrophoretic variability, use of, to examine genotypic variation in a moss, 331–340
endocyclic selection, 134
enzyme heterozygosity and disease resistance in rainbow trout, 413–417

female polymorphism in the damsel fly, 341–346
fire ant developmental stability, 93–103
floral characters, genetics of, in *Turnera ulmifolia*, 105–112
  evolution, genetic studies in, 29–44
fluctuating asymmetry and developmental stability in fire ants, 93–103
frequency and distribution of chiasmata, 17–23
  of cyanogenic plants of white clover, 387–390

gene for rust resistance in *Glycine argyrea*, 247–353
genetical architecture of competition, 222–231
genetic differentiation in Greek brown trout populations, 297–304
  structure of a colonising species, 281–287
  trade-offs and novel environment, 323–330
genetics of colour polymorphism in a moth, 87–92
  of floral characters in *Turnera ulmifolia*, 105–112
  of *Phaseolus* beans, 430
  studies of floral evolution, 29–44
genetic variability in *Avena canariensis*, 403–411
  variation, distribution of, in *Climacium americanum*, 233–238
    for mating success in stinkbugs, 161–167
    in a modifier system in *Drosophila*, 55–66
    in *Polytrichum juniperinum*, 331–340
    in three species of swans, 73–80
    loss of, in bottlenecked housefly populations, 315–321
genome development and evolution, 427
growth and reproduction in wild barley, effects of seed size on, 239–250

heritability and relationship to mate fecundity in stinkbugs, 161–167
hermaphrodite sex allocation, 1–7
heterozygosity and disease resistance in rainbow trout, 413–417
host acceptance in *Drosophila busckii*, 371–375
hybrid anomalies in *Drosophila*, 255–262

inbreeding lineage and complex hybridity in *Isotoma petraea*, 289–295
infertility in autotetraploid barley, 305–313
inheritance of calyx morph variants, 121–124
  of female polymorphism in the damselfly, 341–346
  of sex ratio in an isopod, 419–425
interaction of *nor*-polygenes on tomato softness, 205–213
inter-specific hybrids of *Papaver*, thebaine conversion in, 367–370
isozyme polymorphism in *Avena canariensis*, 403–411

larval substrates, distribution of, in *Drosophila buzzattii*, 355–365
life cycle evolution and genetic trade-offs, 323–330
linkage of viability genes, 67–72
  relationships of rye secalins, 125–130
low grain yield and infertility in autotetraploid barley, 305–313

maternal effect in developmental anomalies in *Drosophila* hybrids, 255–262
maternally inherited mutants, 9–15
mating patterns in *Eichhornia*, 271–280
  success in stinkbugs, 161–167
  systems in *Lymnaea peregra*, 169–175
meiosis in male and female brush-tailed possums, 251–254
modifier variability in *Drosophila*, 55–66
multiple mating in the isopod, *Sphaeroma*, 81–85

nor-polygenes interaction on tomato softness, 205–213

outcrossing in rayed and rayless *Bidens*, 139–143

phylogenetic relationships in European brown trout populations, 297–304

polyembryony in plants, 71
polymorphism in colour patterns of the Jersey Tiger Moth, 87–92
in the damselfly, 341–346
isozyme in *Avena canariensis*, 403–411
population cytogenetics of *Crepis capillaris*, 377–385
genetics, 428–429
structure in *Drosophila buzzattii*, 355–365
potato breeding and selection, 429

quantitative genetics, 428

reappraisal of stabilizing selection in snails, 113–120
reproductive capacity and lifespan in *Drosophila busckii*, 371–375
rice storage proteins, inherited mutants for, 9–15
Robertsonian chromosome polymorphism in mice, 25–27
polymorphism, effect of, on chiasma frequency, 145–159
rust resistance in *Glycine argyrea*, 347–353

secalins in rye, linkage and relationships of, 125–130
segregation distortion variants, 70–71
self-fertilization and inbreeding depression in *Lymnaea peregra*, 169–175
self-incompatible radiate morph, absence of, in *Senecio vulgaris*, 391–393
serial bottlenecks and electrophoretic variation in the housefly, 315–321
sex allocation and age structured populations, 1–7
differences in meiosis in brush-tailed possums, 251–254
linked gene of the common lizard, 131–138
ratio in *Sphaeroma rugicauda*, 419–425
shell shape in terrestrial snails, 113–130
synaptonemal complex irregularities, elimination of, 45–53

thebaine conversion in interspecific hybrids of *Papaver*, 367–370
tomato softness, effects of *nor*-polygenes on, 205–213
transmission rate of rye B-chromosomes, 197–204
triocultures of *Drosophila melanogaster*, competitive interactions in, 215–222

variability of DNA fingerprints, 73–80
variation in chromosomal inversion frequencies in *Drosophila*, 263–270
in outcrossing rates and mating pattern in *Eichhornia*, 271–280
in seed size in wild barley, 239–250
temporal in allele frequencies in a mosquito, 281–287

zymograms, 180